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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/551,673	09/30/2005	Pierre Alinat	4590-446 5578	
33308 7590 07/06/2007 LOWE HAUPTMAN & BERNER, LLP				INER
1700 DIAGON	AL ROAD, SUITE 300		PIHULIC, DANIEL T	
ALEXANDRIA	A, VA 22314		ART UNIT . PAPER NUMBER	
			3662	
			MAIL DATE	DELIVERY MODE
			07/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/551,673	ALINAT ET AL.			
Office Action Summary	Examiner	Art Unit			
	Daniel Pihulic	3662			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	l. the mailing date of this composition (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on  2a) This action is <b>FINAL</b> . 2b) ☐ This 3) Since this application is in condition for alloware closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro		e merits is		
Disposition of Claims					
4)  Claim(s) 14-26 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5)  Claim(s) is/are allowed. 6)  Claim(s) 1-26 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or Application Papers 9)  The specification is objected to by the Examine 10)  The drawing(s) filed on 30 September 2005 is/applicant may not request that any objection to the	wn from consideration. or election requirement. er. are: a)⊠ accepted or b)□ object	•	miner.		
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached Office	Action or form P1	ГО-152.		
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 20050930.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers

have been placed of record in the file.

2. The listing of references in the specification is not a proper information disclosure

statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information

submitted for consideration by the Office, and MPEP § 609 A(1) states, "the list may not be

incorporated into the specification but must be submitted in a separate paper." Therefore, unless

the references have been cited by the examiner on form PTO-892, they have not been

considered.

3. Claims 14-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

Claims 25 and 26 depend from canceled claim 11 and are thus considered incomplete.

Claim 14 recites the limitation "the first pulses" in lines 4-5. There is insufficient antecedent

basis for this limitation in the claim.

Claim 21 recites the limitation "the pulses FP" in line 6. There is insufficient antecedent basis

for this limitation in the claim.

Claim 22 recites the limitation "the detection of objects" in line 7. There is insufficient

antecedent basis for this limitation in the claim.

Claim 22 recites the limitation "the predetermined criterion" in line 9. There is insufficient

antecedent basis for this limitation in the claim.

Claim 22 recites the limitation "the classifying" in line 13. There is insufficient antecedent basis

for this limitation in the claim.

Claim 22 recites the limitation "the bottom echoes" in line 13. There is insufficient antecedent

basis for this limitation in the claim.

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Claims 15-20, 23 and 24 are rejected for depending from the aforementioned parent claims.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign

country or in public use or on sale in this country, more than one year prior to the date of

application for patent in the United States.

5. Claims 14, 15, 20 and 23-26 are rejected under 35 U.S.C. 102(b) as being anticipated by

US4562438. The US4562438 reference discloses the utilization of a method for processing

received signals corresponding to a transmitted signal recurrently comprising two pulses (see

column 1, lines 6 to 10), one Doppler-tolerant broadband pulse (see column 1, line 59:

"frequency modulation (e.g., frequency sweeping)" ) and one Doppler-sensitive broadband pulse

(see column 1, line 59: "frequency modulation"; column 1, lines 60 to 61: "phase modulation";

column 1, line 61: "linear or non\-linear" ), comprising: an object detection step carried out on

the portion of the received signal corresponding to the pulses and providing an alarm for each

object detected (see column 2, lines 7 to 11), and a detected object classification step (this is

performed by all radar or sonar systems) wherein classification of the detected objects is carried

out on the portion of the received signal corresponding to the Doppler-sensitive pulses for the

alarms complying with at least one predetermined criterion (see column 2, lines 11 to 16; column

4, lines 39 to 44) as recited in the aforementioned claims.

With regards to claim 15, see column 2, lines 11-16 and column 4, lines 40-44.

With regards to claim 20, see column 5, line 52; column 2, lines 11-16 and column 4, lines 40-

44.

With regards to claim 25, see column 1, lines 65-66 and column 6, lines 25-27.

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With regards to claim 26, see column 1, lines 67-68 and column 6, lines 23-25.

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or

described as set forth in section 102 of this title, if the differences between the subject

matter sought to be patented and the prior art are such that the subject matter as a whole

would have been obvious at the time the invention was made to a person having ordinary

skill in the art to which said subject matter pertains. Patentability shall not be negatived

by the manner in which the invention was made.

7. Claims 16-19 and 22-24 are rejected under 35 U.S.C. 103 as being unpatentable over

US4562438 as applied to claim 14 above, and further in combination with Carmillet et al. Claim

23 additionally recites the utilization of HFM and BPSK. The Carmillet et al. reference teaches

that it was well known in the art to utilize HFM (see column 6, lines 10-22) and BPSK (see

column 6, lines 23-30). It would have been obvious to modify the US4562438 reference to

utilize HFM and BPSK as motivated by the Carmillet et al. reference to enable the US4562438

system to enhance signal processing.

With regards to claim 24, see column 6, line 23 of US4562438.

The additional features of dependent claims 16-19 and 22 would have been routine steps for a

person skilled in the art. They relate to well-known signal processing techniques.

8. Claim 21 is rejected under 35 U.S.C. 103 as being unpatentable over US4562438 as

applied to claim 20 above, and further in combination with US2431854. Claim 21 additionally

recites estimating the Doppler. The US2431854 reference teaches that it was well known to

estimate the Doppler (see column 2, lines 28-39). It would have been obvious to modify the

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US4562438 reference to estimate the Doppler as motivated by the US2431854 reference to

enable the US4562438 system to compensate for relative movement.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dan Pihulic whose telephone number is 571-272-6977. The

examiner can normally be reached on Monday and Wednesday through Friday from 5:30 a.m. to

4 p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thomas Tarcza, can be reached on 571-272-6979.

The fax phone numbers for the organization where this application or proceeding is assigned are:

571-273-8300 for official responses, and

571-273-6977 for unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should

be directed to the telephone number 800-786-9199.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197.

/Daniel Pihulic/
Daniel T. Pihulic
Primary Patent Examiner
T.C. Art Unit 3662